PDLM Polarization Dependent Loss Multimeter

- Usage mode or extension of EPS1000 polarization scrambler, with built-in photodetector(s).
- Polarization-dependent loss (PDL) and mean loss are calculated in firmware.
- PDL measurement interval <100 ms
- PDL measurement range 0.05...50 dB
- Optical power meter function
- Extinction method (superb especially for large PDL) and sqrt(3) method
- Polarization scrambler functionality is kept with optional switch.
- Fully programmable (USB, LAN, GUI, Matlab, Python, C, ...)

Left: Standard configuration of EPS1000 with PDLM function. DUT = device under test. An optical switch can be built in, which makes the polarization scrambler EPS1000 accessible without coupler insertion loss.

Below: PDL measurements (extinction mode, <100ms for each of 100 measurements, 2 PDLM units tested) of patchcord (left) and partial polarizer (right) as DUT while polarization before and behind DUT is changed